

CLAIMS

1. In a color image transmission system between a pair of computer image processing systems A and B, a method for calibrating color of a digital image in image transmission whereby color of a digital image indicated on a monitor of either one of said systems A & B is corrected to a color being substantially matched to color of an original color image which is transmitted from the other one of said systems A & B, comprising:

after preparation of a basic color image Z being common to said systems A & B, a preparatory operation of setting a correction value which is applied to said operation of calibrating color of said digital image indicated on said monitor, by using said common basic color image, and

a color matching operation applied to any digital image indicated on said monitor of either one of said systems A & B by applying said correction value in a condition of confirming the transmission pattern, whereby color of said digital image is corrected to a condition that said color of the corrected digital image is substantially matched in view to color of said original color image before transmission.

2. A method for calibrating color of a digital image in transmission between a pair of computer image processing systems A & B according to claim 1, wherein said transmission of a digital image is carried out from said system A to said system B,

said preparatory operation to set correction value α comprising:

a first step of scanning said basic color image Z by a scanner of said system A so that a digital image of said basic color Z is indicated on a monitor of said system A,

a second step of transmitting digital data of said digital image to said system B by way of an MO disc so that a digital image Z₁ is indicated on the

monitor of the system B, and

5 a third step of carrying out a color matching operation of the digital image Z_1 out by conventional method so that a color modified digital image Z_2 having a color substantially matched to the color of the common basic color image Z is indicated on the monitor of the system B, then setting said correction value α based upon the color data deviated from initial color data indicated on said monitor before applying said color matching operation, said color matching operation comprising:

15 a fourth step of scanning an original color image X whereby digital data of said original color image X is stored in a computer of said system A,

a fifth step of transmitting said digital data from said system A to said system B by way of an MO disc whereby a digital image X_1 is indicated on the monitor of said system B, and

20 a sixth step of applying a color matching operation to said digital image X_1 by applying said correction value whereby a color modified digital image X_2 , having color substantially matched in view to the color of said original color image X is indicated on the monitor of said system B.

25 3. A method for calibrating color of a digital image in transmission between a pair of computer image processing systems A & B according to claim 1, wherein said transmission of a digital image is carried out from said system A to said system B, a color matching operation to indicate a digital image having a color substantially matching the color of an original color image being carried out before said transmission,

30 said color matching operation comprising:
a preparatory operation to set a correction value β which is applied to said color matching operation by using said common basic color

image Z, said preparatory operation comprising:

a first step of scanning said basic color image Z by the scanner of said system A whereby a digital image Z₃ is indicated on the monitor of said system A,

5 a second step of applying a conventional color matching operation to correct the color of said digital image Z₃ whereby a color modified digital image Z₄ having a color matched to the color of the basic color image Z is indicated on the monitor of said
10 system A, and

a third step of setting a correction value β based upon color data deviated from initial color data indicated on said monitor before applying said color matching operation,

15 whereby in color matching operation, a digital image X₄ having a color substantially match in view to the color of an original color image X is created from a digital image X₃ indicated on the monitor of the system A by applying said correction value β to said
20 color matching operation.

4. A method for calibrating color of a digital image in transmission between a pair of computer image processing systems A & B according to claim 3, wherein

said preparatory operation to set
25 correction value γ comprises:

a first step of storing digital data of said digital image Z₄ on an MO disc,

a second step of transmitting said digital data of said digital image Z₄ to said system B by way of
30 said MO disc so that a digital image Z₅ is indicated on the monitor of said system B, and

a third step of applying a conventional color matching operation to said digital image Z₅ whereby a color modified digital image Z₆ is indicated on the
35 monitor of said system B, said correction value γ then being set based upon color data deviated from initial

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color data indicated on the monitor of said system B
before applying said color matching operation,

5 said color matching operation applied to a
digital image X_5 indicated on the monitor of said
system B by transmitting said digital image X_4 indicated
on the monitor of said system A being carried out by
applying said correction value γ whereby a digital
image X_6 having a color substantially matched to the
color of the digital image X_4 indicated on the monitor of
10 said system A is indicated on the monitor of said
system B.

5. A method for calibrating color of a digital
image in transmission between said systems A & B
according to claim 2 or claim 4,

15 further comprising successive operations
consisting of changing a composition of said digital
image X_2 displayed on the monitor of said system B so
that a new digital image X_7 is indicated on the monitor
of said system B, a preparatory operation carried out
20 before transmitting said digital image X_7 to said
system A, and transmission of a digital image created by
said preparatory operation, wherein in said operation of
changing the composition of said digital image X_2
displayed on the monitor of said system B so that a new
25 digital image X_7 is indicated on the monitor of said
system B, and said preparatory operation before
transmitting said digital image X_7 to said system A,
color modification by a correction value $(-\gamma)$ is applied
to said digital image X_7 so that a modified digital
30 image X_8 is indicated on the monitor of said system B,
and digital data of said digital image X_8 is transmitted
by MO disc from said system B to said system A whereby a
digital image X_9 having a color substantially matched in
view to color of said digital image X_8 is indicated on
35 said monitor of system A.

6. A method for calibrating color of a digital

image transmission between said systems A & B according to claim 1,

5 further comprising an operation of setting an action program based upon said correction value for automatically and successively carrying out color matching operations on said digital image being a target of color matching operations, and installing said action program in said computers of said systems A & B, whereby said color matching operations of a digital image applied to a plurality of independent color images are successively carried out by said action program.

15 7. A method for calibrating color of a digital image transmitted between said systems A & B according to claim 1, wherein said basic color image Z is a R.G.B. basic color image.

20 8. A method for calibrating color of a digital image transmitted between said systems A & B according to claim 1, wherein correction value δ is once set in a case of transmission from said system A to said system B, and a correction value $(-\delta)$ is used as the correction value for carrying out the color matching operation applied to transmit a digital image from said system system B to said system A.